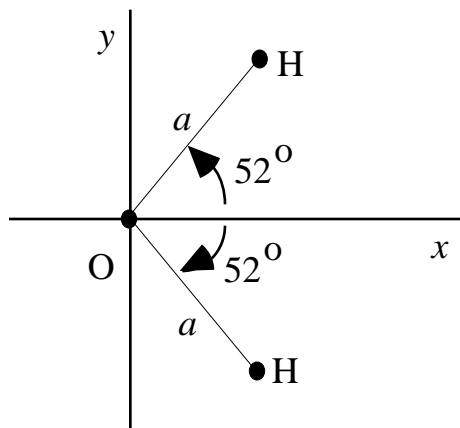


EXERCISE 1

A model of the water molecule H_2O is shown in MT Figure 9-B.



- Where is the center of mass? $X = ?$ $Y = ?$ $Z = ?$
- What is the moment of inertia about the x axis? $I_x = ?$
- What is the moment of inertia about the y axis? $I_y = ?$
- What is the moment of inertia about the z axis? $I_z = ?$
- What is the moment of inertia about an axis that goes through the hydrogen atoms? $I' = ?$

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